

## Patent Abstracts of Japan

B2

PUBLICATION NUMBER : 2003105640  
PUBLICATION DATE : 09-04-03

APPLICATION DATE : 28-09-01  
APPLICATION NUMBER : 2001303498

APPLICANT : HITACHI CHEM CO LTD;

INVENTOR : HIRAI OSAMU;

INT.CL. : D01F 9/22 B01J 20/20 B01J 20/28 B01J 21/18 B01J 23/42 B01J 32/00 B01J 35/02  
B01J 35/04 B01J 35/06 B01J 37/00

TITLE : METHOD FOR PRODUCING CATALYST SUBSTANCE-SUPPORTING CARBON FIBER  
AND METHOD FOR STORING HYDROGEN

ABSTRACT : PROBLEM TO BE SOLVED: To provide a readily mass-producible hollow carbon fiber capable of affording a uniform shape and characteristics without requiring purification and removal of a metal catalyst due to no use of the metal catalyst, a method for producing the hollow carbon fiber and a method for storing hydrogen in a high storage volume of the hydrogen.

SOLUTION: The method for producing a catalyst substance-supporting carbon fiber and the method for storing the hydrogen are provided. Furthermore, the method for producing the catalyst substance-supporting carbon fiber comprises a step of preparing a fibrous formed product using a resin composite comprising a polymer disappearing by thermal decomposition and containing the catalyst substance and the carbon precursor polymer and a step of heating and baking the fibrous formed product obtained in the step. The method for storing the hydrogen comprises using the catalyst substance-supporting carbon fiber.

COPYRIGHT: (C)2003,JPO